

IN THE CLAIMS:

1. (Amended) A process for preparing monodisperse anion exchangers comprising

- (a) reacting monomer droplets made from at least one monovinylaromatic compound including styrene and at least one polyvinylaromatic compound to give a monodisperse, crosslinked bead polymer,
wherein the polyvinylaromatic compound is an amount from about 1% to 20% by weight based on the mixture with the monomer or mixture with other monomers,
wherein the monomer droplets include initiators or mixtures of initiators in an amount of about 0.05% to 2.5% by weight based on the mixture with the monomer or mixture with other monomers.
 - (b) amidomethylating the monodisperse, crosslinked bead polymer from step (a) with phthalimide or methylphthalimide,
 - (c) converting the amidomethylated bead polymer from step (b) to an aminomethylated bead polymer, and
 - (d) alkylating the aminomethylated bead polymer from step (c).
2. (Original) A process according to Claim 1 wherein the monomer droplets are microencapsulated using a complex coacervate.
3. (Original) A process according to Claim 1 wherein step (a) is carried out in the presence of a protective colloid.
4. (Original) A process according to Claim 1 wherein step (a) is carried out in the presence of at least one initiator.
5. (Original) A process according to Claim 1 wherein the monomer droplets comprise porogens that, after the polymerization, form macroporous, crosslinked bead polymers.
6. (Original) A process according to Claim 1 wherein a polymerization inhibitor is used in step (a).
7. (Original) A process according to Claim 3 wherein the protective colloids are gelatin, starch, polyvinyl alcohol, polyvinylpyrrolidone, polyacrylic

acid, polymethacrylic acid, copolymers made from (meth)acrylic acid or (meth)acrylate, or mixtures thereof.

8. A process according to Claim 1 wherein the monovinylaromatic compounds are monoethylenically unsaturated compounds.

9. (Original) A process according to Claim 1 wherein the polyvinylaromatic compounds are divinylbenzene, divinyltoluene, trivinylbenzene, divinyl-naphthalene, trivinyl-naphthalene, 1,7-octadiene, 1,5-hexadiene, ethylene glycol dimethacrylate, trimethylolpropane trimethacrylate, allyl methacrylate, or mixtures thereof.

10. (Original) A process according to Claim 1 wherein the initiator is a peroxy compound or an azo compound.

11. (Original) A process according to Claim 10 wherein the initiator is dibenzoyl peroxide, dilauroyl peroxide, bis-(p-chlorobenzoyl) peroxide, dicyclohexyl peroxydicarbonate, tert-butyl peroctoate, tert-butyl peroxy-2-ethyl-hexanoate, 2,5-bis-(2-ethylhexanoylperoxy)-2,5-dimethylhexane, or tert-amylperoxy-2-ethylhexane,

12. (Original) A process according to Claim 10 wherein the initiator is 2,2'-azobis(isobutyronitrile) or 2,2'-azobis-(2-methylisobutyronitrile).

13. (Original) A process according to Claim 1 wherein a phthalimido ether is formed in step (b).

14. (Previously Presented) A process according to Claim 13 wherein the phthalimido ether is prepared from phthalimide or methylphthalimide and formalin.

15. (Original) A process according to Claim 13 wherein the reaction of the phthalimido ether with the bead polymer takes place in the presence of oleum, sulfuric acid, or sulfur trioxide.

1126 2546. (New) A process according to Claim 1 further wherein the monomer droplets include porogens.